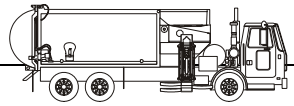
LEACH

A FEDERAL SIGNAL COMPANY

WACLR CROCODILE AUTOMATED SIDE LOADER OPERATION & SERVICE MANUAL

STRONGER ALL AROUND



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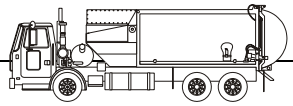

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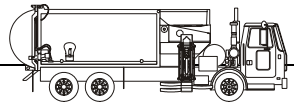
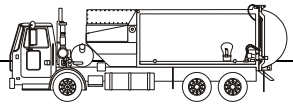


Leach's Vision Statement

Leach is a growing, market-focused manufacturer of dynamic truck mounted equipment. We are recognized as a responsive, knowledgeable and innovative company with obligations to our shareholders, employees and community. Leach provides quality products and service that exceed customer expectations.

Leach's Quality Policy Statement…

Quality People producing Quality Products for Quality Customers!



Liability

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Symbols in this Manual

This manual contains three symbols which serve to alert the reader to the following:

INFORMATION: This symbol supplies important relevant information AND/OR warns of procedures which could lead to damage to the equipment.

CAUTION: This symbol warns of procedures which could lead to damage to the equipment AND/OR which could result in serious physical injury or death.

EXTREME DANGER: This symbol warns of procedures which could lead to serious injury or death of either the operator or other persons.

Any equipment fitted with hydraulic cylinders is dangerous. If you do not read this entire manual, you may miss important information. Carefully observe all symbols and take appropriate precautions.

Symbols on your vehicle

Your vehicle is equipped with safety decals which conform to ANSI Z535-1998 standards. Familiarize yourself with the following warnings.

Failure to heed all safety decals on your vehicle and in this manual may lead to injury or death.

DANGER: (White letters on Red Background) Extreme hazard of severe injury or death.

WARNING: (Black letters on Orange Background) Danger of death or severe injury.

CAUTION: (Black letters on Yellow Background) Danger of injury or equipment damage.

CAUTION: (Black letters on Yellow Background - no safety symbol) Danger of equipment damage only.

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Contact Information

Leach recognizes that you, the end user of our product, are vital sources for information to build our future designs. To continue our quest of building the best refuse equipment on the market, we encourage your comments and suggestions.

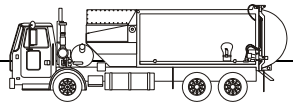
Please contact us with any questions or concerns at:

1496 Brier Park Crescent N.W.
Medicine Hat, Alberta
Canada T1C 1T8

General Inquiries:

Toll Free: 877 948-8531

Phone: (403) 527-8806 / Fax: (403) 529-1821



Service Department:

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Toll Free: 888 437-4411

Fax: (864) 306-3775

Website:

Check our web site for the latest Service Bulletins, Product Info, Downloads, etc.

www.leach.com

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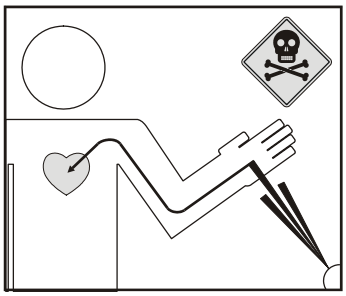
Important Notes!



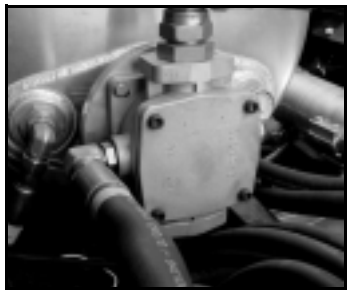
Human skin can be easily penetrated by high pressure oil (2000 psi and above). Failure to take appropriate safety precautions may result in serious injury or death!

Prior to using your new Crocodile Automated Side Loader, it MUST BE COMPLETELY LUBRICATED as shown on the lube decal located near the rear of the body on the passenger side.

Initial lubrication carried out by Leach is sufficient for production and transport purposes ONLY!

With your safety in mind, we would like to remind you that ONLY QUALIFIED PERSONNEL should service the hydraulic, electrical, and pneumatic systems on your refuse vehicle. In addition, these mechanics should be fully versed in the operation of this unit.

Please read carefully the SAFETY FIRST, CONTROLS, and OPERATION sections of this manual, *prior* to attempting any maintenance of your Crocodile Automated Side Loader.

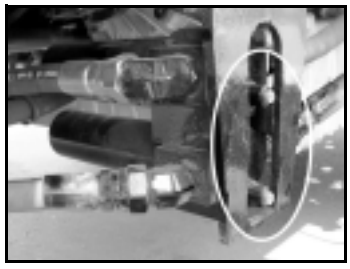


Return line filter pop-up indicator.

Return Line Filter

CAUTION

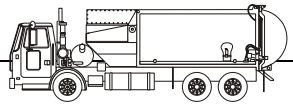
To protect the hydraulic components of your new equipment, the return line filter ***must be changed after the first 50 hours of use***. Thereupon, the filter should be changed every 1,000 hours, following a major hydraulic component failure, or as indicated by the red pop-up indicator.



Pressure Line Filter

CAUTION

To protect the hydraulic components of your new equipment, the two pressure line filters ***must be changed after the first 50 hours of use***. Thereupon, the filters should be changed as indicated by the pop-up indicators (circled).



NHTSA Warning

If you believe that your Crocodile Automated Side Loader has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Leach Inc by calling our service department toll-free at 1 (877) 948-8532.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in this equipment, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you and Leach Inc.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.

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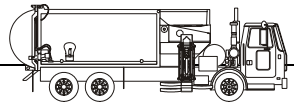

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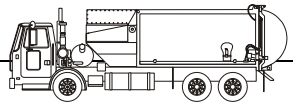

Safety is always of prime importance when operating any type of unit. All employees working with this unit must be aware of the safety practices and features detailed in this section.

Safety is everyone's business

Personnel in charge of maintenance should not do any maintenance on the equipment if they are not well acquainted with the operations of the equipment as well as all safety precautions of such operations. Refer to the appropriate section of this manual before attempting to perform any type of work on the unit.

Leach cannot accept any responsibility for failures and/or injuries caused by repairs done by the user.

Before doing any maintenance work on the unit, all safety regulations must be respected.

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Employer/Operator Responsibilities

Employer Responsibility

1. Regularly inspect your unit, including all safety equipment.
2. Repair any present or potential mechanical malfunction.
3. Keep records of unit inspections, maintenance, repairs and malfunctions.
4. Ensure the unit is equipped with appropriate lighting.
5. Provide adequate training to all operators.
6. Monitor the employees operation of equipment and take appropriate action to ensure proper and safe use of the equipment

Operator Responsibility

1. Learn the safe operating procedures for the unit.

   Consult your supervisor if any procedure is unclear.

2. Use the unit as per manufacturer's guidelines only.
3. Perform routine daily unit inspections.
4. Report any malfunctions or concerns immediately to your supervisor.

   Do not use damaged equipment.

General Safety Precautions

Do

1. Inspect the body and all systems at the beginning of each day.
2. Check the area is clear of any people or possible obstructions.

INFO

Small children are especially difficult to see. Be extremely cautious in areas with small children.

3. Wear gloves, safety glasses, safety boots and any other safety equipment when loading and packing refuse.
4. Check mirrors, windows, lights and monitor equipment are clean and adjusted properly.
5. Check for explosive trash, for example, televisions, paint cans and fluorescent light tubes.
6. Be cautious while driving with an unevenly distributed load.
7. Inspect for overhead hazards, that is, power lines, prior to hoisting body, operating lift assembly, or climbing on main body.
8. Use the hoist safety props when servicing under the body. Refer to Setting the Hoist Safety Prop on page 28.
9. Use the tailgate safety props, if equipped, before entering the area between the main body and tailgate. Refer to Securing the Tailgate Locks on page 26.
10. Obey all warning and operation decals.
11. Secure the lift at all times, except when loading. Refer to Securing the Lift on page 29.

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Don’t

1. Do not operate any unit while under the influence of alcohol, narcotics or other intoxicants.
2. Do not wear jewelry or loose clothing.
3. Do not leave the unit before it is brought to a complete stop and the toggle work brake or the chassis park brake is engaged.
4. Do not enter hopper or main body unless the engine is shut off, the key is removed and there is an out of service tag on the steering wheel. Refer to Completing the Lockout/Tagout Procedure on page 24.
5. Do not back up the truck when dumping a load at the landfill.
6. Do not drive with the body raised or the tailgate open other than to remove trash at the landfill.
7. Do not hoist the body on uneven ground.
8. Do not stand under a raised body.
9. Do not use hoist safety props to prop a loaded body.

Safety Controls

Safety should be your number one priority. Before operating the Crocodile Automated Side Loader, the operator must be completely familiar with the location, operation and function of all controls and indicators related to the operation of the unit. Refer to In-Cab Console Controls on page 47.

INFO

Your unit may not have all the safety features explained here. Check with your supervisor or maintenance department if you have any questions or concerns.

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Safety Features

Automatic Grease System This system ensures lift, slide and grabber cylinder pins and related parts receive the required amount of grease. Consult the OEM manual for more information.

Back Up Alarm The back up alarm sounds when the transmission is put into reverse or the tailgate opens.

Console Warning Lights The console warning lights alert the operator to the following conditions:

Arm Not Parked: *The arm is extended. If the vehicle is in motion, this presents a severe hazard to pedestrians as well as the risk of striking another vehicle.*

Packer Blade Stall: *The packer blade has stalled.*

Body Raise: *The body is not firmly seated on the chassis. The body should only be raised during unloading and maintenance.*

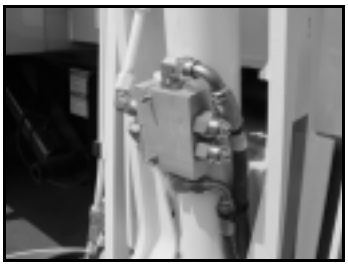
Tailgate Ajar: *The tailgate is not fully closed. The tailgate should only be open during unloading and maintenance.*

Hydraulic Oil Temperature: *The hydraulic oil temperature is dangerously high. Continuing to operate the hydraulic functions may result in serious damage.*

Access Ladder: *The access ladder is deployed. All hydraulic functions should be locked out.*

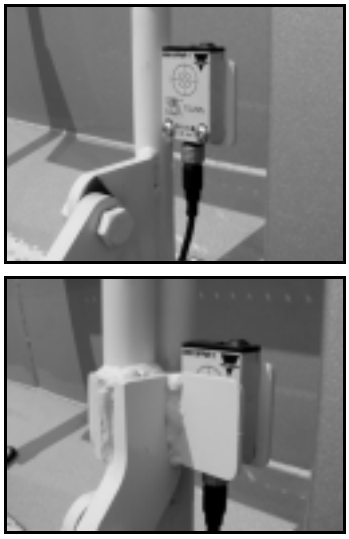
Hopper Cover: (if equipped) *The hopper cover is closed.*

INFO In some cases the warning light is accompanied by a buzzer.



Counter Balance Valves Counter balance valves provide a hydraulic lock to prevent the lift cylinders from bleeding oil back into the system. The resulting loss of pressure can result in hydraulic cylinder 'creepage', or uncontrolled fall of the lift. Also, the counter balance valves will prevent the cylinder from retracting in the event of hose failure.

Environmental Spill Kit (optional) This is on the body fender.



Extension Ladder Proximity Switch with ladder deployed (top) and in stored position (bottom)

Extension Ladder Proximity Switch Installed on the extension ladder, the proximity switch locks out all hydraulic functions when the ladder is deployed.

Fire Extinguisher The fire extinguisher provided is 9 kg (20 lbs.) and must be checked regularly by qualified personnel.

First Aid Kit (optional) This is located inside the cab.

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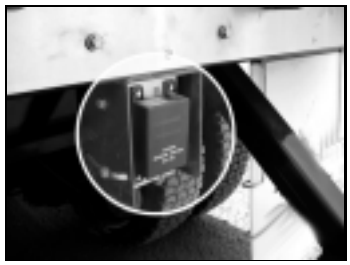


Global Motion Sensors (optional) These tailgate-mounted sensors set the parking brake and sound a buzzer when an obstruction is detected behind the unit. Consult the OEM manual for more information.

Grease Manifold The centrally mounted grease manifold provides external grease nipples for all internal grease points, which removes the need for maintenance personnel to enter the body to grease cylinders and pivot points.

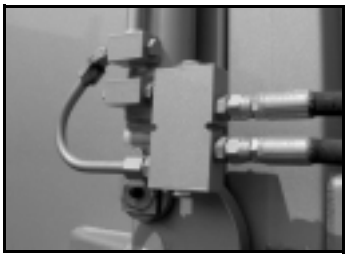
Always unload the unit before setting the hoist safety prop.

Hoist Safety Prop The hoist safety prop must be set when any work is done under a lifted body. Refer to Setting the Hoist Safety Prop on page 28.

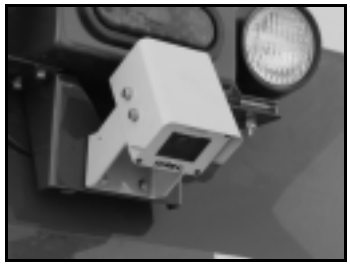
CAUTION

Never prop a loaded body.

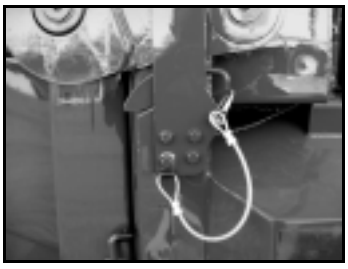
Lift Lock The manually operated lift lock prevents the lift from extending when engaged. The lift lock should always be in place except when loading. Refer to Securing the Lift on page 29.



Pilot Operated Check Valves The pilot operated check valves prevent the discharge of oil out of a cylinder in the event of hose failure. Refer to the hydraulic circuit drawings in your Crocodile Automated Side Loader Parts manual for locations.



Rear Vision Camera System (optional) A tailgate-mounted camera sends images to the monitor in the cab when the transmission is in reverse or when the switch is set to 'ON'. Consult the OEM manual for more information.



Tailgate Locks The tailgate locks are designed to prevent the tailgate from opening accidentally. The locks must be in place unless you are unloading refuse. Refer to Securing the Tailgate Locks on page 26.

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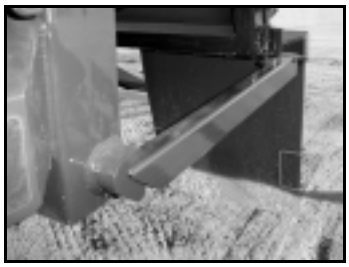

Tailgate Safety Props The tailgate safety props ensure that the tailgate will not close when you are working beneath an open tailgate. Refer to Setting the Tailgate Safety Props on page 27.

Completing the Safety Lockout Tests

Completing the safety lockout tests are part of your daily inspection. Successful completion of these tests ensures that your unit is safe to operate. If any of these tests fail, do not operate your unit until the appropriate adjustment or service has been completed.

INFO

Your Crocodile Automated Side Loader may be equipped with other safety lockout options not mentioned here. Consult your supervisor and/or maintenance department if there are any questions or concerns.

Extension Ladder Proximity Switch

Completing this test ensures the Side Loader Extension Ladder Proximity Switch is working. If the extension ladder is deployed, all hydraulic functions should stop.

1. Deploy the extension ladder.
2. Ensure the ‘Access Ladder’ warning lamp illuminates and the buzzer sounds.
3. Attempt to open the tailgate. All hydraulic functions should be disabled.
4. If any hydraulic function is operational when the ladder is deployed, notify your maintenance supervisor immediately.

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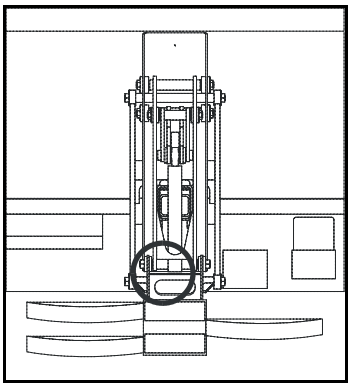


Lift Elevated Proximity Switch location.

Lift Elevated Proximity Switch

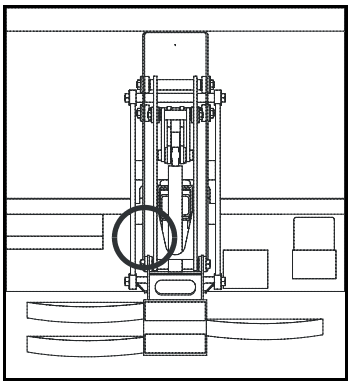
Completing this test ensures the 'Arm not Parked' warning light will illuminate and the buzzer will sound when the lift is elevated.

INFO

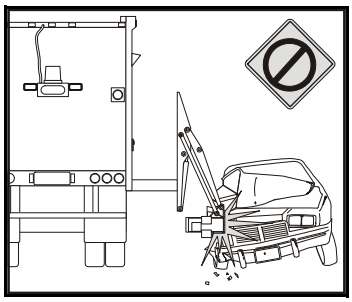
The buzzer sounds when the lift is not parked and the vehicle is travelling faster than 5 mph (8 kph).

1. Park the vehicle in a low/no traffic area, with sufficient room to drive forward approximately 100 yards.
2. Raise the lift to the dump position.
3. Check that the in-cab warning light is illuminated.
4. Drive the Side Loader forward and exceed 5 mph (8 kph). The buzzer should sound.
5. Stop the vehicle and return the lift to the 'home' position. The buzzer should stop and the in-cab warning light should extinguish.
6. If the warning light does not illuminate when the lift is raised and/or the buzzer does not sound when the vehicle exceeds 5 mph, notify your maintenance supervisor immediately.

Do not operate a Side Loader with an inoperative or malfunctioning Lift Elevated Proximity Switch. Injury or death may occur!



Slide Extended Proximity Switch location.



Completing this test ensures the 'Arm not Parked' warning light will illuminate when the slide is extended.

Slide Extended Proximity Switch

Completing this test ensures the 'Arm not Parked' warning light will illuminate and the buzzer will sound when the slide is extended. Failure to heed this warning light may result in serious personal or material damage from a lift which is extended during travel. This warning also prevents dumping of refuse outside the hopper.

INFO

The buzzer sounds when the slide is extended and the vehicle is travelling faster than 5 mph (8 kph).

1. Park the vehicle in a low/no traffic area, with sufficient room to drive forward approximately 100 yards.
2. Extend the slide.
3. Check that the in-cab warning light is illuminated.
4. Drive the Side Loader forward and exceed 5 mph (8 kph). The buzzer should sound.
5. Stop the vehicle and return the slide to the 'home' position. The buzzer should stop and the in-cab warning light should extinguish.
6. If the warning light does not illuminate when the slide is extended and/or the buzzer does not sound when the vehicle exceeds 5 mph, notify your maintenance supervisor immediately.

Do not operate a Side Loader with an inoperative or malfunctioning Slide Extended Proximity Switch. Injury or death may occur!

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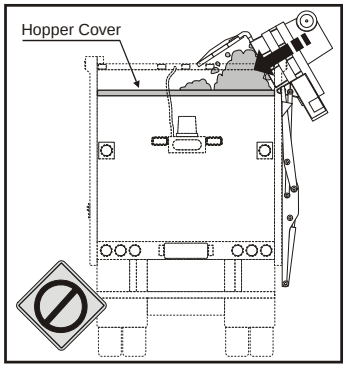
Hopper Cover Limit Switch (if equipped)



Completing this test ensures that you can not accidentally dump refuse on top of the hopper cover.

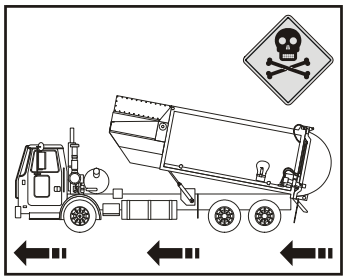
Completing this test ensures that you can not accidentally dump refuse on top of the hopper cover.

1. Close the hopper cover.
2. Attempt a dump cycle with an EMPTY can.
3. If the dump cycle completes, notify your maintenance supervisor immediately.

INFO

The lift should still function to approximately 1/3 of the full lift height.

Body Raised Limit Switch



Completing this test ensures you know when the body is properly seated on the chassis. The body should always be seated unless unloading or service is being performed!

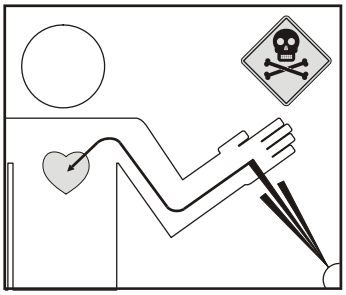
Completing this test ensures you know when the body is properly seated on the chassis. The body should always be seated unless unloading or service is being performed!

CAUTION

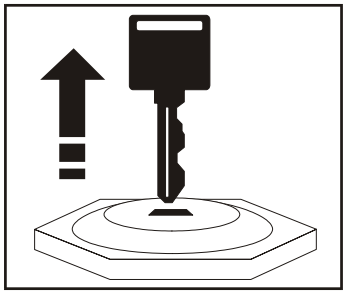
Never drive the unit while the body is raised!

1. Lower the body, using the in-cab console ‘Hoist’ switch. Exit the cab and visually confirm that the body is firmly seated on the chassis.
2. Enter the cab, raise the body, using the in-cab console ‘Hoist’ switch and note when the body raised lamp illuminates and the buzzer sounds. Both should occur immediately.
3. If the lamp does not illuminate and/or buzzer does not sound, notify your maintenance supervisor immediately.

Completing the Lockout/Tagout Procedure



3. Human skin can be easily penetrated by high pressure oil (2000 psi and above). Failure to take appropriate safety precautions may result in serious injury or death!



4. Shut off engine, remove keys from ignition and store keys in a safe controlled area.

This recommended lockout/tagout procedure should be followed whenever you are inspecting, cleaning or repairing the Crocodile Automated Side Loader.

Failure to follow the lockout/tagout procedure may result in serious injury or death.

1. Apply chassis park brake.

   INFO
   - If work is to be carried out under the body, and the service hoist is to be raised, Refer to Setting the Hoist Safety Prop on page 28.

2. Switch OFF the hydraulic pump.
3. Move any one of the hydraulic controls to relieve any residual pressure in the system.
4. Shut off engine, remove keys from ignition and store keys in a safe controlled area. It is recommended that you keep the keys on your person.
5. Place an Out-of-Service tag on the steering wheel using a non-reusable fastener and place an Out-of-Service sign in the front window.
6. Turn off and lock the battery switch.
7. Chock all the wheels.

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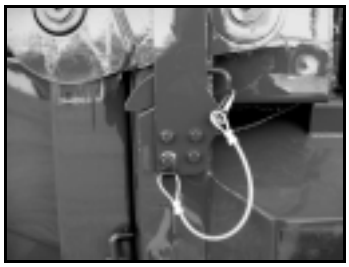
Quick Reference Lockout Chart

Joystick control switch not ON	All lift functions inoperative
Vehicle over 10 mph	Slide OUT inoperative
Slide not fully retracted	Dump inoperative
Lift raised above 1/3 height	Grabber OPEN inoperative
Extension ladder deployed	All hydraulic functions inoperative
Hopper cover closed (or not fully open) (if equipped)	Lift UP function will not operate above 1/3 height

Securing the Tailgate Locks

Before opening the tailgate, remove both tailgate locks.



Before operating the Crocodile Automated Side Loader, secure both tailgate locks.

The tailgate locks ensure that the tailgate can not be opened accidently. The tailgate locks must be in place unless you are unloading refuse or servicing the tailgate. Remember these two critical points:

CAUTION

- Before operating the Crocodile Automated Side Loader, secure both tailgate locks.
- Before opening the tailgate, remove both tailgate locks.

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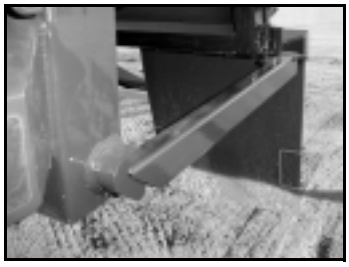
Setting the Tailgate Safety Props

Never walk or work under the tailgate when it is open unless the tailgate safety props are installed!



Tailgate Safety Prop engaged.

The tailgate safety props ensure that the tailgate will not close when you are working beneath the tailgate. The props are installed on each side of the tailgate.

CAUTION

Never walk or work under the tailgate when it is open unless the tailgate safety props are installed!

1. Ensure there is adequate room behind the vehicle to open the tailgate.
2. Remove both tailgate locks.
3. Open the tailgate by approximately 3 ft. (.90 m).
4. Unlatch each prop from its stored position and lift the prop until it can be set. Latch into place.
5. Close the tailgate as much as possible. Both props should fit securely on the tailgate prop socket (as shown) preventing the tailgate from fully closing.
6. Complete the Lockout/Tagout Procedure. Refer to Completing the Lockout/Tagout Procedure on page 24.

Setting the Hoist Safety Prop

Do not use hoist safety props to prop a loaded body!

The hoist safety prop ensures that the Side Loader body will not fall when you are working beneath it.

CAUTION

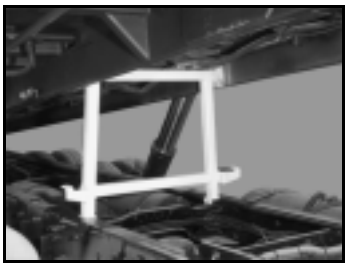
- The hoist safety prop must be engaged if access under a lifted body is required.
- Do not use hoist safety props to prop a loaded body!

1. Ensure that the truck is on solid, level ground and the body is empty. Set the chassis park brake.
2. Check for overhead clearance and chock the front and rear tires.
3. Unlatch the spring storage latch on the safety prop.
4. Raise the body until the safety prop hangs free.

INFO

- If the unlatched prop does not swing into place with the body raised, the prop has been damaged and must be repaired prior to use.
- Do not raise the body higher than is required for the props.

5. Lower the body until the safety prop feet fit into the prop retainer cutouts and seat securely onto the chassis frame.
6. Complete the Lockout/Tagout Procedure. Refer to Completing the Lockout/Tagout Procedure on page 24.



5. Lower the body until the safety prop feet fit into the prop retainer cutouts and seat securely onto the chassis frame.

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Securing the Lift

The lift is secured by means of a manually operated lift lock. The lock prevents the extension of the lift slide. This lock should always be in place except when loading.

To set the lock:

1. Retract the lift to the 'home' position (slide retracted fully, arm lowered fully, grabber open).
2. Ensure the hydraulic pump is off.
3. Put the vehicle in park and set the chassis park brake.

CAUTION

Be sure the vehicle is parked on level ground and in a low/no traffic area.

4. Exit the cab and set the lock (the lock is located behind the lift).

To release the lock:

1. Put the vehicle in park and set the chassis park brake.

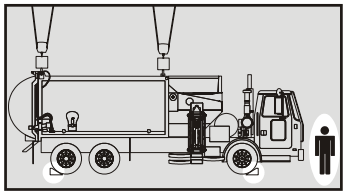
CAUTION

Be sure the vehicle is parked on level ground and in a low/no traffic area.

2. Operate the joystick to retract the slide. This will relieve any pressure on the lock.
3. Ensure the hydraulic pump is off.
4. Exit the cab and release the lock.

Lifting Components for Service

Lifting components of the Side Loader requires special attention to safety.



Carefully follow all safety precautions when lifting the body!

CAUTION

Before attempting these lifts:

- Empty the body.
- Chock both the front and rear wheels
- Stand clear of any cranes, or similar lifting devices, when doing any lifts.
- Do not stand or walk under a load that is suspended unless there are additional safety blocking devices in place.

INFO

While Leach has included the specifications of the lift equipment we use, these specifications are intended as guides only. It is your responsibility to ensure your lift equipment meets all safety standards and that only qualified personnel attempt these lifts.

Lifting the Lift Assembly	Requires one (1) 1 ton lifting device
Lifting the Front Body	Requires one (1) 5 ton overhead crane
Lifting the Body	Requires two (2) 5 ton overhead cranes

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Lifting the Lift Assembly

Lift hoist point

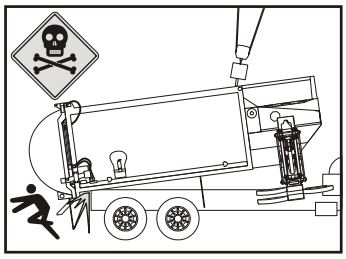
You may need to lift the lift assembly manually in order to perform maitenance on the lift or to remove or remount the lift on the vehicle.

CAUTION

You will need a forklift, engine hoist or other lifting device rated to 2,200 lbs. (1 metric tonne) minimum lift capacity.

Securing the Rear Body

Securing the rear body is required when you need to lift the front body for repairs. It may be secured to the chassis via a hinge, or you may need to install a lifting device.



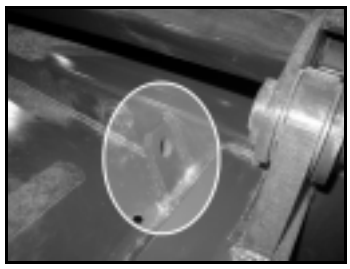
Never lift the front body until you have secured the rear body!

Securing the Rear Body to a Lift Beam

You will need one lift beam, two 5 ft. (1.524 m) lengths of chain, two shackles and two grab hooks.

CAUTION

- Never lift the front body until you have secured the rear body.
- The lifting beam should be 8 in. x 21 in. x 3/8 in. (20.32 cm x 53.34 cm x .5250 mm.) grade 80 lift chains with a working load limit of 7100 lbs. (3.2206 tonne) at 90 degrees.



Inspect the welds on the rear body's lifting lugs and repair, if necessary.

1. Inspect the welds on the rear body's lifting lugs and repair, if necessary.
2. Position the lift beam with chains 75 in. on center above the tailgate.
3. Attach a 5 ft. (1.524 m) long chain to each end of the lift beam.
4. Thread the loose end of each chain through a shackle.

INFO

Each shackle must have a working load limit of 4.75 tons (4.8260 tonne).

Proper lift setup

5. Loop half the chain length through the shackle and attach each chain's grab hook onto the original chain.
6. Attach each shackle to its respective lifting lug.

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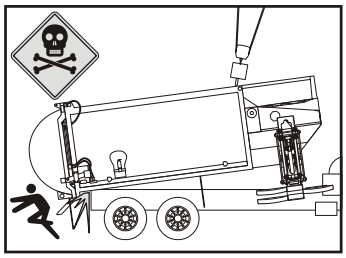
Lifting the Front Body

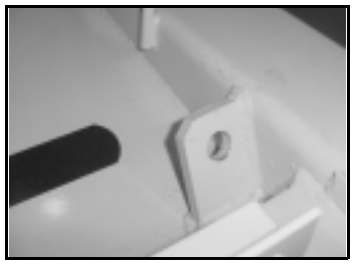


Never lift the front body until you have secured the rear body!

Lifting the front body may be required when you need to complete repairs. You will need one lift beam, two 9 ft. 7 in. (292.1 cm) lengths of chain, two shackles and two grab hooks.

CAUTION

- Never lift the front body until you have secured the rear body.
- The lift beam should be 8 in. x 4 in. x 8 in. (20.32 cm x 10.16 cm x 20.32 cm) with 3/8 in. (.9525 cm) grade 80 lift chains with a working load limit of 7100 lbs. (3.2206 tonne) at 90 degrees.



1. Inspect the welds on the front body's lifting lugs and repair, if necessary.

1. Inspect the welds on the front body's lifting lugs and repair, if necessary.
2. Secure the rear body. Refer to Securing the Rear Body on page 32.
3. Attach a 5 ft. (1.524 m) long chain to each end of the lift beam.
4. Thread the loose end of each chain through a shackle.

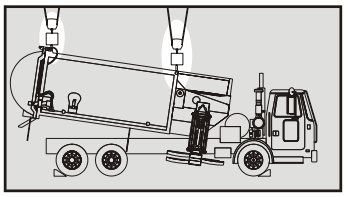
   INFO

   Each shackle must have a working load limit of 4.75 tons (4.8260 tonne).

5. Loop half the chain length through the shackle and attach each chain's grab hook onto the original chain.
6. Attach each shackle to its respective lifting lug.
7. Lift the front body.

Lifting the Body

Lifting the Crocodile Automated Side Loader body requires securing both the front body and the rear body to a lift beam. You will need two lift spools and two lift beams.



Never lift the rear body until you have secured the front body to another lifting device!

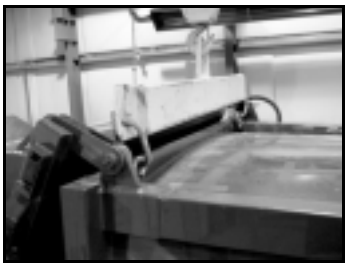
CAUTION

Never lift the rear body until you have secured the front body to another lifting device.

1. Secure the rear body to a lift beam. Refer to Securing the Rear Body on page 32.
2. Attach a 5 ft. (1.524 m) long chain to each end of the lift beam.
3. Thread the loose end of each chain through a shackle.

INFO

Each shackle must have a working load limit of 4.75 tons (4.8260 tonne).



Proper rear body lift setup

4. Loop half the chain length through the shackle and attach each chain's grab hook onto the original chain.
5. Attach each shackle to its respective lifting lug.
6. Lift the body.

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Safety Decal Standards

Your vehicle is equipped with safety decals which conform to ANSI Z535-1998 standards. Familiarize yourself with the following warnings.

Failure to heed all safety decals on your vehicle and in this manual may lead to injury or death.

DANGER: (White letters on Red Background) Extreme hazard of severe injury or death.

WARNING: (Black letters on Orange Background) Danger of death or severe injury.

CAUTION: (Black letters on Yellow Background) Danger of injury or equipment damage.

CAUTION: (Black letters on Yellow Background - no safety symbol) Danger of equipment damage only.

Safety Decals

CAUTION

Pay careful attention to all safety decals and warnings while working in and around the Crocodile Automated Side Loader. Keep your decals clean and in good repair at all times. For replacement decals, call 1 (877) 948-8532 toll free, and order using the part numbers below.

INFO

Note the one-letter suffix on the part number (on the decal - suffix is not included in the part numbers below), which denotes the second language of the bilingual decal: 'F' indicates French, 'S' indicates Spanish. All Leach safety decals and most informational decals are bilingual.

D18-0004

Attached to the hydraulic tank at point of shipping.

D18-0010

Located in the cab.

D18-0011

Located in the cab, on the control console.

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WARNING
TAILGATE LOCKS MUST BE IN PLACE!
Remove TAILGATE LOCKS during unloading and maintenance ONLY!
Extreme hazard from refuse escaping vehicle during travel. Danger of severe damage to tailgate.
ADVERTENCIA
¡LOS SEGUROS DE LA PUERTA DE CARGA Y DESCARGA DEBEN ESTAR EN SU LUGAR! Quite los SEGUROS DE LA PUERTA DE CARGA Y DESCARGA SÓLO durante la descarga y el mantenimiento.
Peligro extremo; los desperdicios pueden saltar del vehículo durante el viaje. Peligro de daños importantes a la puerta de carga y descarga.

D18-0026

Located either side of the body, near the tailgate locks.

D18-0027

Located on the air lines bracket, under the battery box.

WARNING
The top of this vehicle is high enough that a fall may result in severe injury or death!
Take the following precautions BEFORE climbing:
Use caution on roof - may be slippery when wet.
ADVERTENCIA
La parte superior de este vehiculo es lo suficientemente alta como para que una caida pueda producir heridas graves e incluso la muerte.
ANTES de subir, tome las siguientes precauciones:
¡Precaución! Si se moja, la superficie del techo puede ser resbaladiza.

D18-0028

Located on the side of the body, behind the ladder.

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DANGER
STAND CLEAR OF TAILGATE!
EXTREME CRUSH HAZARD.
Complete LOCKOUT/TAGOUT procedure and ensure TAILGATE SAFETY PROPS are in place before standing under tailgate.
PELIGRO
¡ALÉJESE DE LA PUERTA DE CARGA Y DESCARGA! RIESGO EXTREMO DE APLASTAMIENTO.

D18-0030

Located either side of the body, just forward of the tailgate.

D18-0039

Located on the top of the vehicle, at the hopper opening.

D18-0046

Located either side of the body, near the back.

D18-0047

Located on the front windshield.

WARNING
CRUSH HAZARD. BODY MAY FALL!
DO NOT GO UNDER LIFTED BODY unless safety prop is engaged! Prop will support UNLOADED body only!
ADVERTENCIA

D18-0061

Located on the side of the chassis, underneath the body.

CAUTION
DISCONNECT ALL batteries and electronic control modules PRIOR to welding on body.
Failure to observe this precaution may lead to severe damage to electronic components.
PRUDENCIA
DESCONECTE TODAS las baterías y módulos de control electrónico ANTES de soldar la carrocería.
No seguir esta medida preventiva podría causar daños graves a los componentes electrónicos.

D18-0065

Located on the battery box.

D18-0067

Located on the hydraulic tank.

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D18-0069

Located on the hydraulic tank, behind the fluid gauge.

D18-0086

Located on the side of the body, near the lift.

D18-0087

Located on the side of the body, near the lift.

D18-0092

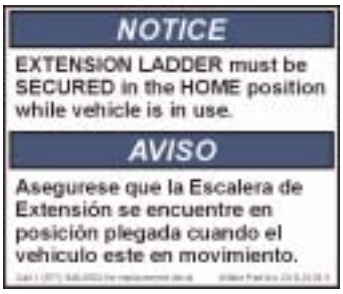
Located on the hydraulic tank, near the cap.

D18-0098

Located in-cab, on the visor.

D18-0127

Located in-cab, on the visor.


NOTICE
EXTENSION LADDER must be SECURED in the HOME position while vehicle is in use.
AVISO
Asegurese que la Escalera de Extensión se encuentre en posición plegada cuando el vehiculo este en movimiento.

D18-0128

Located on the side of the body, near the extension ladder proximity switch.

Lubrication Chart

Located near the rear of the body, driver's side.

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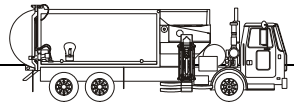

Chapter 2
Controls

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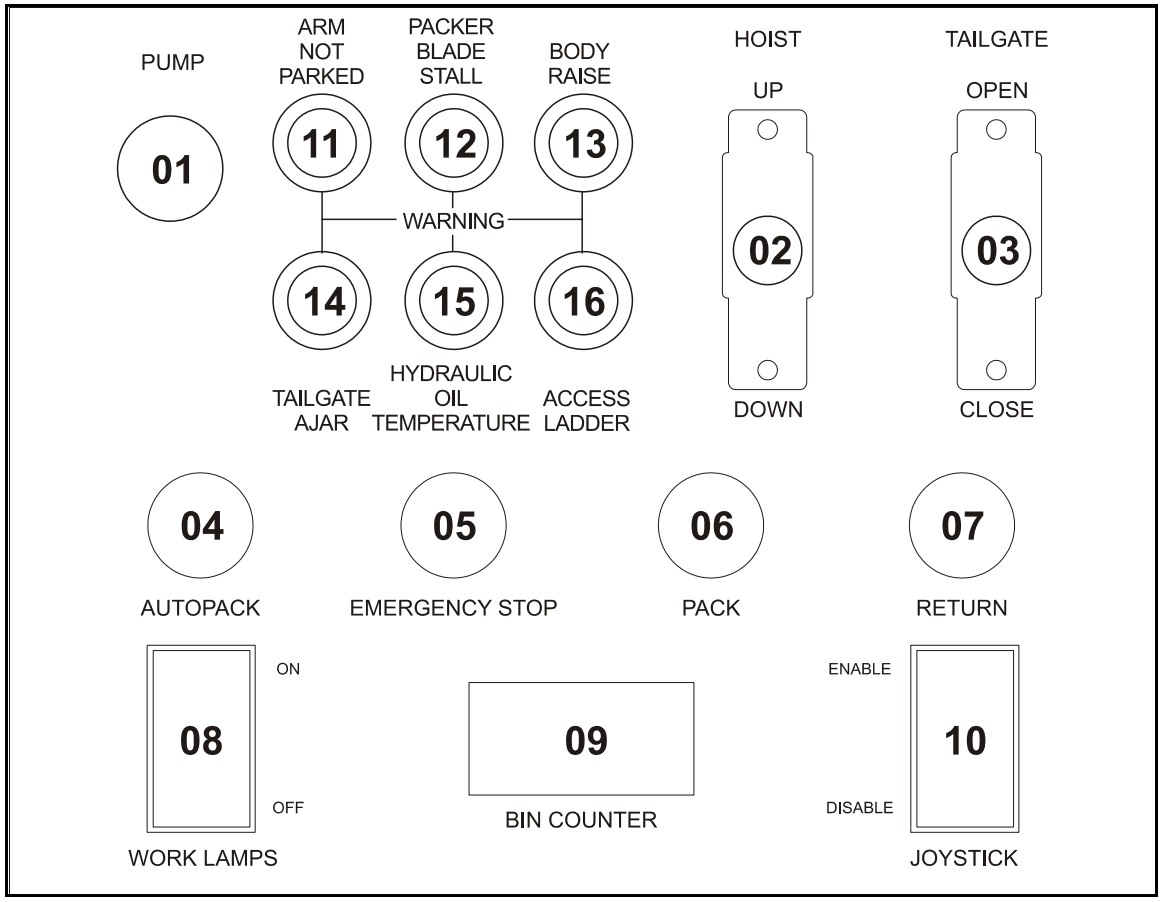
In-Cab Console Schematic



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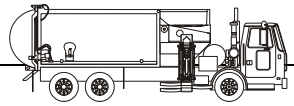
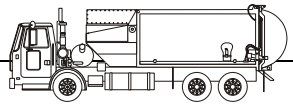


Control Box - Controls

01. Hydraulic Pump ON/OFF
02. Hoist UP/DOWN
03. Tailgate OPEN/CLOSE
04. AUTOPACK
05. EMERGENCY STOP
06. PACK
07. RETURN
08. Work Lamps ON/OFF
09. Bin Counter
10. Joystick ENABLE/DISABLE

Control Box - Warning Lights

11. Arm Not Parked
12. Packer Blade Stall
13. Body Raised
14. Tailgate Ajar
15. Hydraulic Oil Temperature
16. Access Ladder



Crocodile Automated Side Loader Controls

Before operating the Crocodile Automated Side Loader, the operator must be completely familiar with the location, operation and function of all controls and indicators related to the operation of the unit.

INFO

Please note that some of these are options and may not be installed on your unit.

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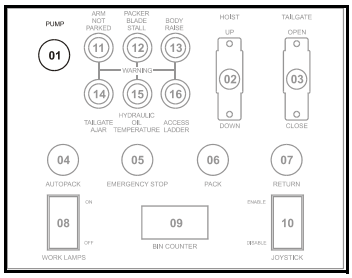
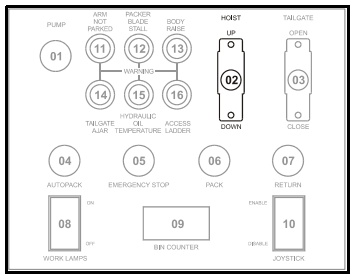
In-Cab Console Controls



Pump Push Button (01)

This button engages the hydraulic pump. A lamp in the button illuminates when the pump is active.

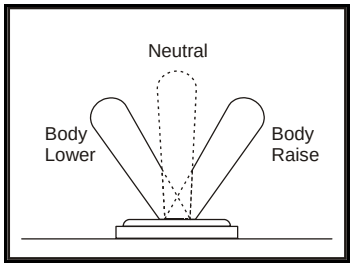
- Depress the button to activate the hydraulic pump.
- Press the Pump Off / Emergency Stop button (05) to deactivate the hydraulic pump.



Hoist Switch (02)

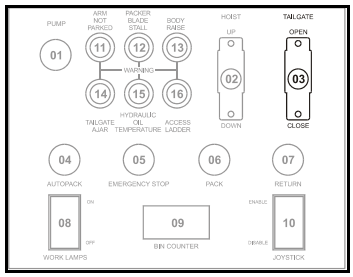
This switch raises and lowers the Side Loader body. This is a 2-way self-centering switch.

- Hold the switch UP to extend the hoist cylinders and raise the body.
- Hold the switch DOWN to collapse the hoist cylinders and lower the body.



INFO

The switch will automatically return to the NEUTRAL position.



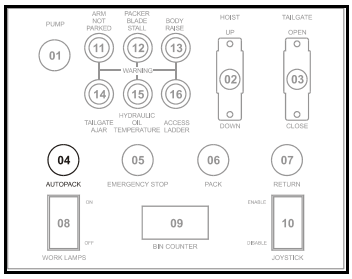
Tailgate Switch (03)

This switch opens and closes the tailgate.

CAUTION

Remove the tailgate latch blocks from each side of the tailgate before using this switch.

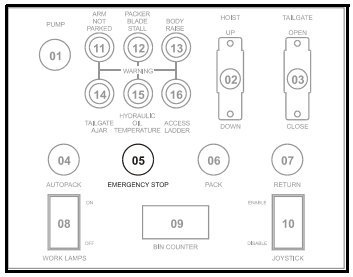
- Push and hold the switch UP to open the tailgate, illuminate the tailgate ajar warning lamp, sound the in-cab buzzer and sound the back-up alarm.
- Push and hold the switch DOWN to close the tailgate, extinguish the tailgate ajar warning lamp, silence the in-cab buzzer and silence the back-up alarm.



Autopack Push Button (04)

This button activates the Autopack mode. In Autopack mode the packer pendulum cycles continuously.

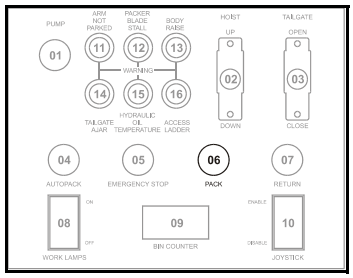
- Press the button to activate AUTOPACK mode.
- Press the Autopack button again, or the Pack button, to deactivate AUTOPACK mode and pack manually.



Pump Off / Emergency Stop Push Button (05)

This button shuts off the hydraulic pump and immediately stops all hydraulic motion.

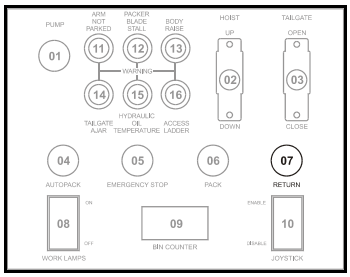
- Press the button to shut off the pump and stop all hydraulics.
- Press the Pump push button (01) to reactivate the hydraulic pump and hydraulic functions.



Pack Push Button (06)

This push button allows the operator to manually pack the load. Use this function when the hopper is nearing capacity or AUTOPACK is labored.

- Press and hold this button to pack.
- Press and hold the RETURN button (07) to return the pendulum to the retracted position.



Return Push Button (07)

This push button allows the operator to manually retract the packer pendulum. Use this function when manually packing the load (see Pack Push Button, above).

- Press and hold the button to return the pendulum to the retracted position.

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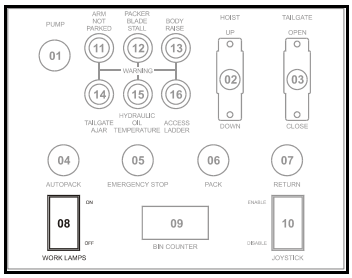
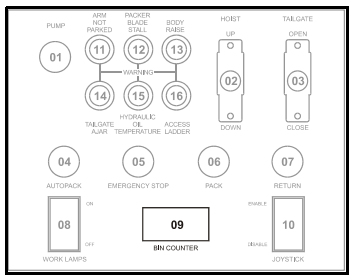


Work Lamps Rocker Switch (08)

The Work Lamps Rocker Switch activates the cab, hopper, and lift work lights. A light in the switch will illuminate when these lights are on.

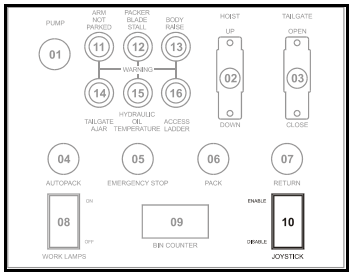
- Press the top of the switch to turn the work lamps on.
- Press the bottom of the switch to turn the work lamps off.



Bin Counter (09)

The bin counter automatically counts the number of bins emptied into the hopper. The count should be reset to zero manually at the beginning of each trip.

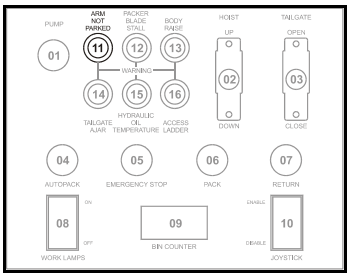
- Press the button located near the bottom of the counter to reset the count to zero.



Joystick Rocker Switch (10)

This Joystick Rocker Switch enables and disables the joystick. A light in the switch illuminates when the joystick is enabled.

- Press the top of the switch to enable the joystick.
- Press the bottom of the switch to disable the joystick.

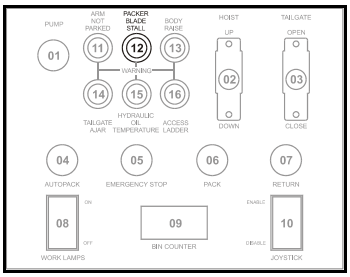


‘Arm Not Parked’ Warning Lamp and Buzzer (11)

This lamp illuminates and a buzzer sounds when the lift is not in the ‘home’ position (slide retracted fully, arm lowered fully, grabber fully open).

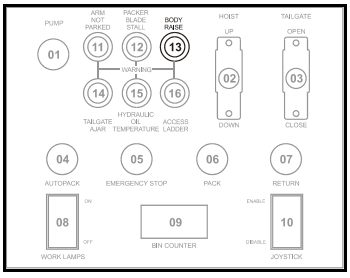
Lift Elevated Proximity Switch on page 21 and Slide Extended Proximity Switch on page 22.

Pay close attention to this warning lamp and buzzer, as travelling with the lift extended is extremely dangerous. The lift may strike a pedestrian or another vehicle.



‘Packer Blade Stall’ Warning Lamp (12)

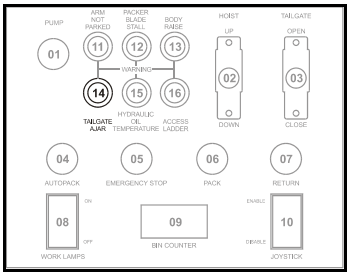
This lamp illuminates when the packer blade stalls. The packer blade may stall when the body is nearing capacity.



‘Body Raised’ Warning Lamp and Buzzer (13)

This lamp illuminates and a buzzer sounds when the body is not properly seated on the chassis.

Never drive the vehicle with the body raised as there is a danger that the vehicle may tip over.



‘Tailgate Ajar’ Warning Lamp and Alarm (14)

This lamp illuminates and the backup alarm sounds when the tailgate cylinders are not fully retracted, that is, the tailgate is not fully closed and locked.

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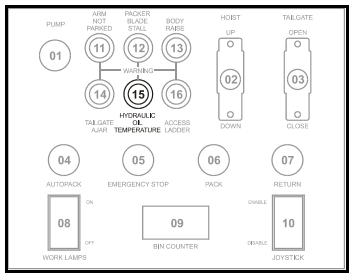
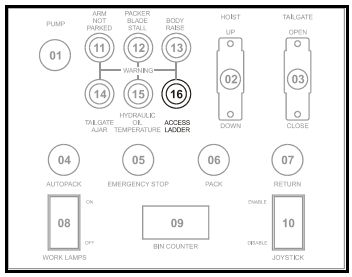


‘Hydraulic Oil Temperature’ Warning Lamp (15)

This lamp illuminates when the hydraulic oil temperature exceeds a safe operating range. (approx. 178° F [90° C])

CAUTION

Continuing the operate the hydraulic functions when the hydraulic oil is too hot may result in severe damage to the hydraulic components.

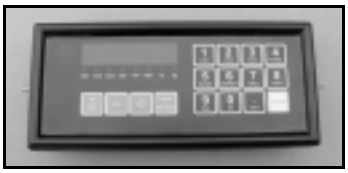


‘Access Ladder’ Warning Lamp (16)

This lamp illuminates when the extension ladder mounted on the side of the body is deployed.

INFO

All hydraulic functions are locked out when the ladder is deployed.



Onboard Scales Display (optional)

This display constantly monitors the weight of your Crocodile Automated Side Loader's body.

INFO

Your display may differ from the model shown at left.

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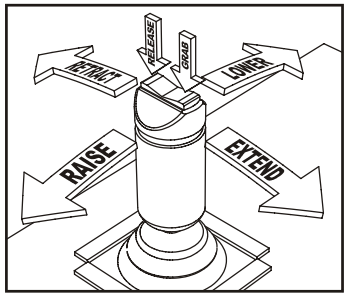
Lift Controls

The lift controls are located on the right-hand drive central armrest.

Joystick/Thumbswitch

This joystick controls the slide ‘extend’ and arm ‘raise’ functions. The joystick operates on 90º angles. The thumbswitch engages and releases the grabber.

- Shift the joystick right to extend the arm.
- Depress the right hand side of the thumbswitch to activate the grabber and securely grip the container.
- Shift the joystick left to retract the arm.
- Pull the joystick back to raise the lift.
- Push the joystick forward to lower the lift.
- Depress the left hand side of the thumbswitch to release the container.

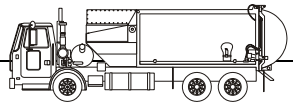


INFO

All extend functions (slide, arm and grabber) are disabled when travelling over 5 mph (8 kmh). Retract functions will still operate.

CAUTION

The lift should always be secured except when loading. Securing the Lift on page 29.



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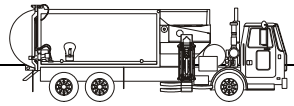

Chapter 3
Vehicle Operation

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Preparing to use Right-hand Drive 58
Positioning Lift for Travel 59
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Cleaning and Preparing a Side Loader for Transport 68
Shutting Down your Side Loader 69

INFO

Before operating the Side Loader, the operator must be completely familiar with all Side Loader safety procedures, and the location, operation and function of all controls and indicators related to the operation of the Side Loader.

Please note that some of these are options and may not be installed on your Side Loader.

You must complete the Daily Inspection before starting the Side Loader. (Refer to Completing the Pre-Trip Inspection on page 57.) It is your responsibility to report any malfunctions or concerns to your supervisor and maintenance department.

Consult with your supervisor for specific rules of driving the Side Loader in your location.

Obey all speed restrictions and regulations.

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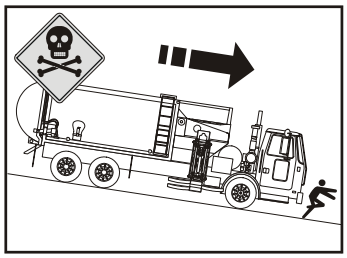
Completing the Pre-Trip Inspection

	Operator Checks
	Ensure the engine is not running and the chassis park brake is set.
	Check cleanliness of decals, mirrors, windows, lamps, and the vehicle in general.
	Check safety equipment is present. (i.e. fire extinguisher, first aid kit)
	Check body is seated flat relative to chassis. (Is it leaning?)
	Check body mounts to chassis are tight and there are no cracks.
	Check body for unusual wear, distortion, cracking, leaning, leaking.
	Check hydraulic oil level in sight gauge on tank. (Cylinders must be collapsed)
	Check hydraulic tank valves are fully open.
	Check hydraulic cylinders for leaks, and mounting pins are secure.
	Check that the Extension ladder is in the stored position.
	Confirm tailgate is fully closed and BOTH tailgate locks are in place.
	Check that the Lift is fully retracted and in the ‘home’ position.
	Start the vehicle and visually confirm the following:
	‘Arm not Parked’ warning lamp and buzzer activate when slide is extended, arm is raised, or grabber is engaged.
	Check that the Lift is secured before driving the vehicle. Refer to Securing the Lift on page 29.

Preparing to use Right-hand Drive



Set the chassis park brake when leaving the cab for an extended time or when stopping on an incline. Do not rely on the work brake!

You must prepare your Side Loader before you switch to right-hand drive. Before you operate a Side Loader using right-hand drive:

- Consult the chassis OEM for more information.
- Check with your supervisor for regional rules about speed restrictions and safety regulations.

1. Set the chassis park brake.

CAUTION

Set the chassis park brake when leaving the cab for an extended time or when stopping on an incline. Do not rely on the work brake.

2. Switch ON the power to the pump. The pump switch will be illuminated.

3. Adjust the mirrors and monitor (if equipped) for driving on the right-hand side.

4. Test that the 'Arm not Parked' warning lamp and buzzer is operating properly.

5. Visually confirm the following:

CAUTION

- Slide must be fully retracted.
- Arm must be fully lowered.
- Grabber must be fully open.

6. Joystick switch must be ON.

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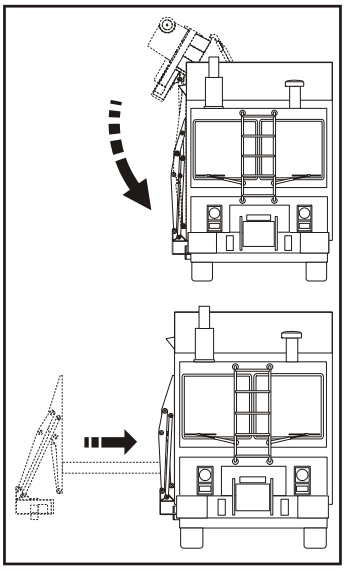
Positioning Lift for Travel



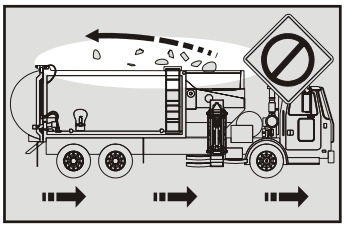
1. Return the lift to the 'home' position.

1. Return the Lift to the 'home' position. (Slide is fully retracted, arm is all the way down, grabber is fully open.)
2. Switch OFF the hydraulic pump, especially when highway travel is required.
3. Ensure the lift lock is engaged. Refer to Securing the Lift on page 29.

En Route

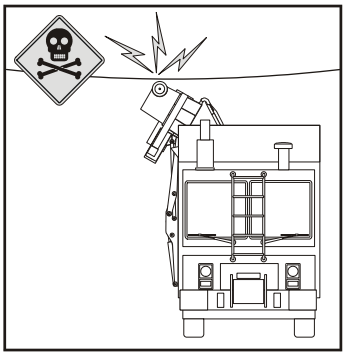
Consult with your supervisor for specific rules of driving the Side Loader in your location. Please remember the following important points.

1. The tailgate MUST BE fully closed with BOTH Latch Blocks chained in place!
2. Ensure hopper cover is closed (if equipped).
3. Ensure the body is firmly seated on the chassis.
4. Obey speed restrictions and regulations if driving from the Right Hand side. Refer to Preparing to use Right-hand Drive on page 58.

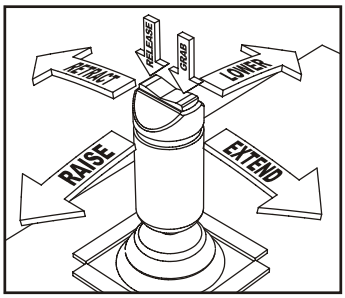


2. Ensure hopper cover is closed. This will prevent refuse from falling out during transit.

Loading the Hopper with Refuse



Be sure there is enough clearance to dump the container



INFO Ensure all controls are ENABLED for right-hand drive operation.

1. Turn the hydraulic pump ON.
2. Activate AUTOPACK.
3. Open the hopper cover (if equipped).
4. Position the Side Loader with the lift parallel to the container.

CAUTION Be sure there is enough clearance to dump the container.

5. Adjust the lift to securely grip the container.
   - Using joystick, slide arm out to reach container.
   - Using joystick, adjust grabber height to securely grip container.
   - Using thumbswitch, grip container firmly.

INFO Refer to Lift Controls on page 53.

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Packing Refuse Using Autopack

1. Open the hopper cover (if equipped).

CAUTION

The hopper cover is only designed to prevent refuse escaping the hopper during transport. It should not be closed during packing. Serious damage may result.

2. Press and release the AUTOPACK push button. This will initiate the AUTOPACK cycle, wherein the pendulum packer blade will complete continuous sweeps of the hopper.

INFO

The Crocodile Automated Side Loader's AUTOPACK cycle operates independently of the dump cycle. Refuse may be emptied into the hopper at any time during the AUTOPACK cycle.

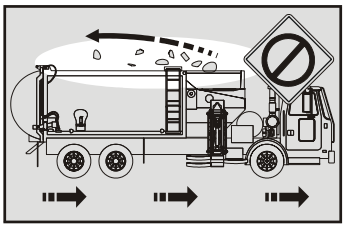
3. You may stop the AUTOPACK cycle at any time by:

- Pressing the AUTOPACK button.
- Pressing the Emergency Stop button.
- Pressing the PACK or RETURN buttons.

Packing Refuse using Manual Pack

When the hopper is at or nearing capacity, or the pendulum packer blade jams, it may be necessary to use manual packing.

CAUTION Continuing to operate the AUTOPACK cycle after the body has reached capacity may result in damage to the vehicle.



1. Ensure the hopper cover is open (if equipped).

CAUTION The hopper cover is only designed to prevent refuse escaping the hopper during transport. It should not be closed during packing. Serious damage may result.

2. Press and hold the PACK push button to pack refuse. The pendulum packer blade will stop when it reaches the fully packed position.
3. Press the Return push button to retract the pendulum packer blade. The blade will stop when it reaches the fully retracted position.

INFO This method allows you to 'break' the load by cycling the blade back and forth.

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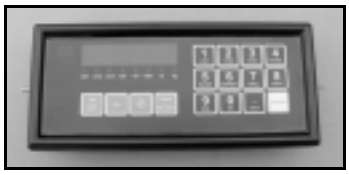
Knowing your Capacity

It is critical that you know when your Side Loader is nearing capacity. Some signs that your Side Loader is nearing capacity include:

- the packer blade fails to complete a full sweep of the hopper.
- the packing cycle is laboured.
- the bin count approaches the number of bins which usually fill the body.

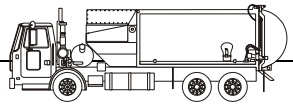


Onboard Weight Scales

Your Side Loader may be equipped with onboard weight scales to monitor the weight of the body. The LCD displays the current weight of the body. Check with your supervisor for regulations or limitations for your area.

INFO

- Report any problems with the onboard weight scale to your maintenance supervisor. Serious mechanical or structural damage may result!



Preparing to drive to the landfill

Refer to Positioning Lift for Travel on page 59.

CAUTION

- FOLLOW COMPANY OR LOCAL REGULATIONS ON DRIVING TO LANDFILL FROM RIGHT OR LEFT SIDE.
- Ensure no refuse is on top of the body.
- Ensure all in-cab warning lights are off.
- Ensure the lift lock is engaged. Refer to Securing the Lift on page 29.

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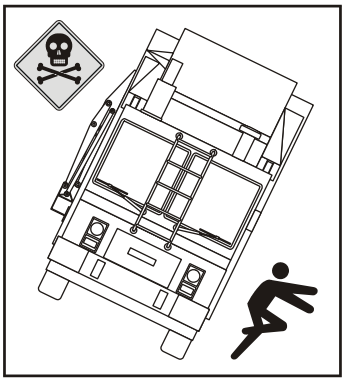
Preparing to Unload Refuse



Serious personal or mechanical damage could result if ground is unstable!

7. Remove both tailgate locks.

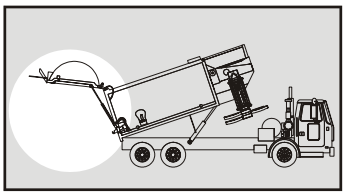
1. Find an appropriate dump location. The ground should be solid and level beneath and ahead of the Side Loader. There must be adequate room for the tailgate to open.

   CAUTION

   • Serious injury or mechanical damage could result if ground is unstable.

2. Straighten the wheels.
3. Set the chassis park brake.
4. Switch ON the hydraulic pump. The switch lamp will be illuminated.
5. Open the hopper cover (if equipped).
6. Push the tailgate switch down to the CLOSE position. (This will relieve any pressure from the tailgate locks and aid removal.)
7. Remove both tailgate locks.

Unloading Refuse



The tailgate must be fully open while unloading!

1. Open the tailgate. The tailgate ajar warning lamp will illuminate and the back-up alarm will sound.

CAUTION

The tailgate must be fully open while unloading.

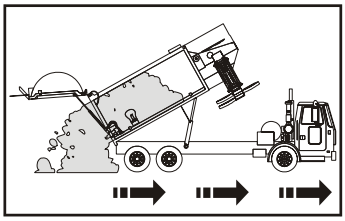
2. Press the AUTOPACK button. The AUTOPACK cycle will clear the hopper of any refuse while unloading.

3. Raise the body fully. The body raised warning lamp will illuminate and the buzzer will sound.

4. Release the chassis park brake.

INFO

The foot brake should be released while you unload to allow the force of the load to push the unit forward. Always be alert of what is in front of the Side Loader.



5. Drive the unit slightly forward as the load is unloaded. This prevents refuse from building up under the tailgate.

5. Drive the unit slightly forward as the load is unloaded. This prevents refuse from building up under the tailgate.

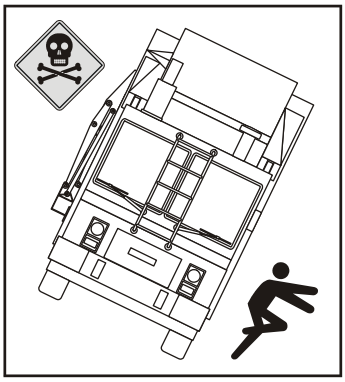
CAUTION

The Side Loader's center of gravity is very high when the body is raised. Keep distance traveled to a minimum.

6. When unloading is completed, set the chassis park brake.

7. Lower the body. The body raised lamp will extinguish and the buzzer will stop when the body is firmly seated on the chassis.

8. Press the AUTOPACK button. The AUTOPACK cycle will stop.



The Side Loader's center of gravity is very high when the body is raised. Keep distance traveled to a minimum.

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Cleaning the Hopper

The Crocodile Automated Side Loader body and hopper are self-cleaning. Daily cleaning is unnecessary.

Occasionally, maintenance personnel may wish to wash out the hopper and body. Be sure to follow lockout/tagout procedures and take all necessary precautions before entering the body. Refer to Completing the Lockout/Tagout Procedure on page 24.

Under no circumstances should the operator enter the body or hopper.

Cleaning and Preparing a Side Loader for Transport

Do not stand under the raised tailgate unless you have followed the proper lockout procedure and have installed the Tailgate Safety Props!

1. Open the tailgate until it is approximately 4 ft. (1.2 m) from the tailgate seal.
2. Place the tailgate safety props. Refer to Setting the Tailgate Safety Props on page 27.
3. Complete the lockout/tagout procedure. Refer to Completing the Lockout/Tagout Procedure on page 24.
4. Clean the tailgate seal area of debris.

Do not stand under the raised tailgate unless you have followed the proper lockout procedure and have installed the Tailgate Safety Props.

5. Reverse the lockout procedure.
6. Remove the tailgate safety props.
7. Close the tailgate completely.
8. Set the tailgate locks.
9. Ensure the lift is in the ‘home’ position and the lift lock is engaged. Refer to Securing the Lift on page 29.
10. Switch OFF the hydraulic pump.

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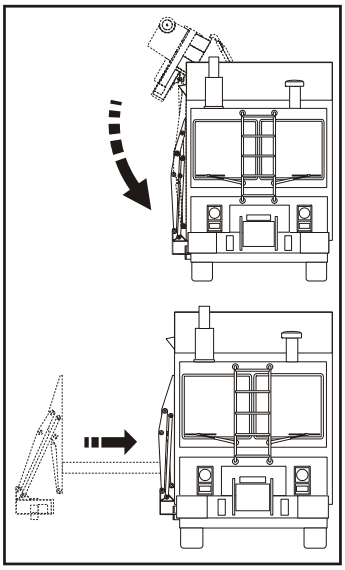
Shutting Down your Side Loader

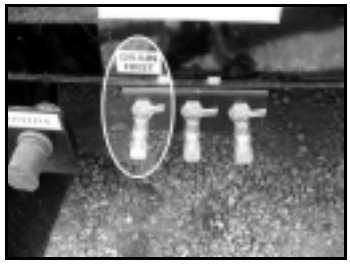


3. Return the lift to the 'home' position.

1. Park the Side Loader on a solid, level surface.
2. Set chassis park brake.
3. Return the lift to the 'home' position and check that the lift lock is set. Refer to Securing the Lift on page 29.
4. Switch OFF the hydraulic pump. The switch light should not be lit.
5. Switch OFF all lamp switches.
6. Shut the unit off following the chassis manufacturer's recommendations.
7. Drain all air from the air tanks.
8. Switch OFF battery switch.

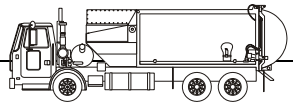
INFO

Your battery box and switch may differ from the one shown at left.



8. Air Drain Valve

9. Battery Switch OFF



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